

# Eugenia Kumacheva

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

195  
papers

16,933  
citations

61  
h-index

128  
g-index

209  
ext. papers

19,032  
ext. citations

10.7  
avg, IF

6.91  
L-index

#	Paper	IF	Citations
195	Biomimetic hydrogel supports initiation and growth of patient-derived breast tumor organoids.. <i>Nature Communications</i> , <b>2022</b> , 13, 1466	17.4	6
194	Composite Microgels for Imaging-Monitored Tracking of the Delivery of Vascular Endothelial Growth Factor to Ischemic Muscles. <i>Biomacromolecules</i> , <b>2021</b> ,	6.9	2
193	Computational Modelling and Big Data Analysis of Flow and Drug Transport in Microfluidic Systems: A Spheroid-on-a-Chip Study. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 781566	5.8	1
192	Microfluidic Arrays of Breast Tumor Spheroids for Drug Screening and Personalized Cancer Therapies. <i>Advanced Healthcare Materials</i> , <b>2021</b> , e2101085	10.1	5
191	Structurally anisotropic hydrogels for tissue engineering. <i>Trends in Chemistry</i> , <b>2021</b> ,	14.8	6
190	Microdroplet-based one-step RT-PCR for ultrahigh throughput single-cell multiplex gene expression analysis and rare cell detection. <i>Scientific Reports</i> , <b>2021</b> , 11, 6777	4.9	2
189	Phytoglycogen Nanoparticles: Nature-Derived Superlubricants. <i>ACS Nano</i> , <b>2021</b> , 15, 8953-8964	16.7	2
188	Multifunctional 3D-Printed Wound Dressings. <i>ACS Nano</i> , <b>2021</b> ,	16.7	20
187	Cylindrical Confinement of Nanocolloidal Cholesteric Liquid Crystal. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 8243-8250	3.4	1
186	Nanoparticle synthesis assisted by machine learning. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 701-716	73.3	38
185	Matrix Stiffness-Regulated Growth of Breast Tumor Spheroids and Their Response to Chemotherapy. <i>Biomacromolecules</i> , <b>2021</b> , 22, 419-429	6.9	15
184	Actuation of Three-Dimensional-Printed Nanocolloidal Hydrogel with Structural Anisotropy. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010743	15.6	18
183	Nanofibrillar Hydrogel Recapitulates Changes Occurring in the Fibrotic Extracellular Matrix. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2352-2362	6.9	4
182	Microfluidic arrays of dermal spheroids: a screening platform for active ingredients of skincare products. <i>Lab on A Chip</i> , <b>2021</b> , 21, 3952-3962	7.2	4
181	Colloidal stability of nanoparticles stabilized with mixed ligands in solvents with varying polarity. <i>Chemical Communications</i> , <b>2020</b> , 56, 8131-8134	5.8	9
180	Morphological Transitions in Patchy Nanoparticles. <i>ACS Nano</i> , <b>2020</b> , 14, 4577-4584	16.7	14
179	Carbon Dots Conjugated with Vascular Endothelial Growth Factor for Protein Tracking in Angiogenic Therapy. <i>Langmuir</i> , <b>2020</b> , 36, 2893-2900	4	11

178	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 668-674	28.7	281
177	Solvent-Mediated Isolation of Polymer-Grafted Nanoparticles. <i>Macromolecules</i> , <b>2020</b> , 53, 4533-4540	5.5	
176	Chiral Carbon Dots Synthesized on Cellulose Nanocrystals. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 19019118.1		23
175	Nanocolloidal Hydrogel with Sensing and Antibacterial Activities Governed by Iron Ion Sequestration. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 10066-10075	9.6	11
174	Self-limiting directional nanoparticle bonding governed by reaction stoichiometry. <i>Science</i> , <b>2020</b> , 369, 1369-1374	33.3	63
173	Helicoidal Patterning of Nanorods with Polymer Ligands. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 3155-3159	3.6	2
172	Polyelectrolyte vs Polyampholyte Behavior of Composite Chitosan/Gelatin Films. <i>ACS Omega</i> , <b>2019</b> , 4, 8795-8803	3.9	7
171	Staged Surface Patterning and Self-Assembly of Nanoparticles Functionalized with End-Grafted Block Copolymer Ligands. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9269-9274	16.4	25
170	Dynamic fibroblast contractions attract remote macrophages in fibrillar collagen matrix. <i>Nature Communications</i> , <b>2019</b> , 10, 1850	17.4	76
169	Helicoidal Patterning of Gold Nanorods by Phase Separation in Mixed Polymer Brushes. <i>Langmuir</i> , <b>2019</b> , 35, 15872-15879	4	12
168	Nanoparticle-laden droplets of liquid crystals: Interactive morphogenesis and dynamic assembly. <i>Science Advances</i> , <b>2019</b> , 5, eaav1035	14.3	10
167	Hybrid Cholesteric Films with Tailored Polarization Rotation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905552	15.6	8
166	Staged Surface Patterning and Self-Assembly of Nanoparticles Functionalized with End-Grafted Block Copolymer Ligands. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9370-9375	3.6	1
165	Temperature-Mediated Microfluidic Extrusion of Structurally Anisotropic Hydrogels. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800627	6.8	11
164	Helicoidal Patterning of Nanorods with Polymer Ligands. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 3123-3127	16.4	18
163	Design and applications of man-made biomimetic fibrillar hydrogels. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 99-115	73.3	160
162	Patterning of Structurally Anisotropic Composite Hydrogel Sheets. <i>Biomacromolecules</i> , <b>2018</b> , 19, 1276-1284	16.4	42
161	Silver-Assisted Synthesis of Gold Nanorods: the Relation between Silver Additive and Iodide Impurities. <i>Small</i> , <b>2018</b> , 14, e1703879	11	23

160	Hydrogel microenvironments for cancer spheroid growth and drug screening. <i>Science Advances</i> , <b>2018</b> , 4, eaas8998	14.3	148
159	Temperature-Responsive Self-Assembly of Nanoparticles Grafted with UCST Polymer Ligands. <i>Macromolecules</i> , <b>2018</b> , 51, 6021-6027	5.5	16
158	Nanocolloidal Hydrogel for Heavy Metal Scavenging. <i>ACS Nano</i> , <b>2018</b> , 12, 8160-8168	16.7	62
157	3D-Printed Microfluidic Devices for Materials Science. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800068	6.8	23
156	Shear-Induced Alignment of Anisotropic Nanoparticles in a Single-Droplet Oscillatory Microfluidic Platform. <i>Langmuir</i> , <b>2018</b> , 34, 322-330	4	22
155	Self-Assembly and Surface Patterning of Polyferrocenylsilane-Functionalized Gold Nanoparticles. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1700554	4.8	14
154	Compound droplets derived from a cholesteric suspension of cellulose nanocrystals. <i>Soft Matter</i> , <b>2018</b> , 14, 9713-9719	3.6	7
153	Self-Assembly of Cellulose Nanocrystals into Semi-Spherical Photonic Cholesteric Films. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803852	15.6	26
152	Thermoplastic microfluidic devices for targeted chemical and biological applications. <i>RSC Advances</i> , <b>2017</b> , 7, 2884-2889	3.7	15
151	Quantifying the efficiency of CO capture by Lewis pairs. <i>Chemical Science</i> , <b>2017</b> , 8, 3270-3275	9.4	27
150	Periodic assembly of nanoparticle arrays in disclinations of cholesteric liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 2137-2142	11.5	48
149	Enhanced electrocatalytic performance of palladium nanoparticles with high energy surfaces in formic acid oxidation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11582-11585	13	42
148	Shape-Specific Patterning of Polymer-Functionalized Nanoparticles. <i>ACS Nano</i> , <b>2017</b> , 11, 4995-5002	16.7	45
147	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6083-6087	16.4	46
146	Nanorattles with tailored electric field enhancement. <i>Nanoscale</i> , <b>2017</b> , 9, 9376-9385	7.7	56
145	Study of Extraction and Recycling of Switchable Hydrophilicity Solvents in an Oscillatory Microfluidic Platform. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 4304-4310	8.3	17
144	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6179-6183	3.6	9
143	Composite Cholesteric Nanocellulose Films with Enhanced Mechanical Properties. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 789-795	9.6	43

142	Injectable Shear-Thinning Fluorescent Hydrogel Formed by Cellulose Nanocrystals and Graphene Quantum Dots. <i>Langmuir</i> , <b>2017</b> , 33, 12344-12350	4	61
141	Nanocrystal superlattices: No need to wait. <i>Nature Materials</i> , <b>2017</b> , 16, 883-884	27	1
140	An exploration of the reflow technique for the fabrication of an in vitro microvascular system to study occlusive clots. <i>Biomedical Microdevices</i> , <b>2017</b> , 19, 82	3.7	4
139	From Structure to Properties of Composite Films Derived from Cellulose Nanocrystals. <i>ACS Omega</i> , <b>2017</b> , 2, 5928-5934	3.9	21
138	Homopolymer Nanolithography. <i>Small</i> , <b>2017</b> , 13, 1702043	11	11
137	Microfluidic Studies of Polymer Adsorption in Flow. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600328	2.6	3
136	Surface patterning of nanoparticles with polymer patches. <i>Nature</i> , <b>2016</b> , 538, 79-83	50.4	196
135	Temperature-Responsive Nanofibrillar Hydrogels for Cell Encapsulation. <i>Biomacromolecules</i> , <b>2016</b> , 17, 3244-3251	6.9	44
134	Nanofibrillar Stimulus-Responsive Cholesteric Microgels with Catalytic Properties. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14220-14224	3.6	6
133	Colloidal cholesteric liquid crystal in spherical confinement. <i>Nature Communications</i> , <b>2016</b> , 7, 12520	17.4	129
132	Rational Design of Efficient Palladium Catalysts for Electroreduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , <b>2016</b> , 6, 8115-8120	13.1	212
131	Shape-Dependent Interactions of Palladium Nanocrystals with Hydrogen. <i>Small</i> , <b>2016</b> , 12, 2450-8	11	29
130	A microfluidic study of liquid-liquid extraction mediated by carbon dioxide. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2710-8	7.2	16
129	Template-assisted colloidal self-assembly of macroscopic magnetic metasurfaces. <i>Faraday Discussions</i> , <b>2016</b> , 191, 159-176	3.6	44
128	Fabrication and optical enhancing properties of discrete supercrystals. <i>Nanoscale</i> , <b>2016</b> , 8, 12702-9	7.7	14
127	One-Step Fabrication of Microchannels with Integrated Three Dimensional Features by Hot Intrusion Embossing. <i>Sensors</i> , <b>2016</b> , 16,	3.8	9
126	Assembly of Gold Nanoparticles on Gold Nanorods Using Functionalized Poly(N-isopropylacrylamide) as Polymeric Glue. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 698-702	3.1	16
125	Two-dimensional arrays of cell-laden polymer hydrogel modules. <i>Biomicrofluidics</i> , <b>2016</b> , 10, 014110	3.2	10

124	Composite Hydrogels with Tunable Anisotropic Morphologies and Mechanical Properties. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3406-3415	9.6	156
123	Linear assembly of patchy and non-patchy nanoparticles. <i>Faraday Discussions</i> , <b>2016</b> , 191, 189-204	3.6	17
122	Toward rational design of palladium nanoparticles with plasmonically enhanced catalytic performance. <i>RSC Advances</i> , <b>2016</b> , 6, 47907-47911	3.7	6
121	Large-Scale Synthesis of Metal Nanocrystals in Aqueous Suspensions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3196-3202	9.6	29
120	Nanofibrillar Stimulus-Responsive Cholesteric Microgels with Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14014-14018	16.4	32
119	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , <b>2016</b> , 537, 382-384	38.4	997
118	Colloidally stable and surfactant-free protein-coated gold nanorods in biological media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5984-91	9.5	124
117	Structure and properties of composite films formed by cellulose nanocrystals and charged latex nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 6612-8	7.7	36
116	Ion-Mediated Gelation of Aqueous Suspensions of Cellulose Nanocrystals. <i>Biomacromolecules</i> , <b>2015</b> , 16, 2455-62	6.9	121
115	Field-assisted self-assembly process: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 181, 463-79	3.6	1
114	New routes to control nanoparticle synthesis: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 181, 147-79	3.6	2
113	Controlled Living Nanowire Growth: Precise Control over the Morphology and Optical Properties of AgAuAg Bimetallic Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 5427-37	11.5	105
112	Silver-Overgrowth-Induced Changes in Intrinsic Optical Properties of Gold Nanorods: From Noninvasive Monitoring of Growth Kinetics to Tailoring Internal Mirror Charges. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9513-9523	3.8	45
111	Reversible gold nanorod alignment in mechano-responsive elastomers. <i>Polymer</i> , <b>2015</b> , 66, 167-172	3.9	16
110	Shape transformations of soft matter governed by bi-axial stresses. <i>Soft Matter</i> , <b>2015</b> , 11, 4600-5	3.6	33
109	Coassembly of gold nanoparticles and cellulose nanocrystals in composite films. <i>Langmuir</i> , <b>2015</b> , 31, 5033-41	4	49
108	Properties of self-assembled nanostructures: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 181, 365-81	3.6	
107	Peclet Number Dependence of Mass Transfer in Microscale Segmented Gas/Liquid Flow. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 9046-9051	3.9	22

106	Hierarchical line-defect patterns in wrinkled surfaces. <i>Soft Matter</i> , <b>2015</b> , 11, 3332-9	3.6	42
105	Circular Dichroism of Chiral Nematic Films of Cellulose Nanocrystals Loaded with Plasmonic Nanoparticles. <i>ACS Nano</i> , <b>2015</b> , 9, 10377-85	16.7	91
104	Optically anisotropic substrates via wrinkle-assisted convective assembly of gold nanorods on macroscopic areas. <i>Faraday Discussions</i> , <b>2015</b> , 181, 243-60	3.6	53
103	Universal behavior of hydrogels confined to narrow capillaries. <i>Scientific Reports</i> , <b>2015</b> , 5, 17017	4.9	28
102	An Exploratory Microfluidic Approach to Photopolymerized Polymer-Inorganic Nanocomposite Films. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 1071-1078	3.9	1
101	Coassembly of Nanorods and Nanospheres in Suspensions and in Stratified Films. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 5710-5714	3.6	18
100	Microfluidic Separation of Ethylene and Ethane Using Frustrated Lewis Pairs. <i>ChemSusChem</i> , <b>2015</b> , 8, 4202-8	8.3	4
99	Coassembly of nanorods and nanospheres in suspensions and in stratified films. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5618-22	16.4	44
98	Self-assembled plasmonic nanostructures. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 3976-91	58.5	234
97	Chitosan/agarose hydrogels: cooperative properties and microfluidic preparation. <i>Carbohydrate Polymers</i> , <b>2014</b> , 111, 348-55	10.3	61
96	Organized Solid Thin Films of Gold Nanorods with Different Sizes for Surface-Enhanced Raman Scattering Applications. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28095-28100	3.8	19
95	Strongly coupled plasmonic modes on macroscopic areas via template-assisted colloidal self-assembly. <i>Nano Letters</i> , <b>2014</b> , 14, 6863-71	11.5	123
94	Microfluidic Studies of Carbon Dioxide. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 8126-8136	3.6	4
93	Structural and optical properties of self-assembled chains of plasmonic nanocubes. <i>Nano Letters</i> , <b>2014</b> , 14, 6314-21	11.5	80
92	Chiral plasmonic films formed by gold nanorods and cellulose nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4788-93	16.4	231
91	Switchable water: microfluidic investigation of liquid-liquid phase separation mediated by carbon dioxide. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11972-9	16.4	31
90	Shaken, and stirred: oscillatory segmented flow for controlled size-evolution of colloidal nanomaterials. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2309-18	7.2	27
89	Microfluidic generation of composite biopolymer microgels with tunable compositions and mechanical properties. <i>Biomacromolecules</i> , <b>2014</b> , 15, 2419-25	6.9	29



88	Titelbild: Copolymerization of Metal Nanoparticles: A Route to Colloidal Plasmonic Copolymers (Angew. Chem. 10/2014). <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2545-2545	3.6	
87	Hierarchical Materials: SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum (Part. Part. Syst. Charact. 11/2014). <i>Particle and Particle Systems Characterization</i> , <b>2014</b> , 31, 1108-1108	3.1	
86	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. <i>Particle and Particle Systems Characterization</i> , <b>2014</b> , 31, 1134-1140	3.1	17
85	Trace cancer biomarker quantification using polystyrene-functionalized gold nanorods. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 4101-7	3.5	2
84	Copolymerization of metal nanoparticles: a route to colloidal plasmonic copolymers. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2648-53	16.4	62
83	Chiral plasmonic activity of cholesteric films formed by gold nanorods and cellulose nanocrystals <b>2014</b> ,		1
82	Copolymerization of Metal Nanoparticles: A Route to Colloidal Plasmonic Copolymers. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2686-2691	3.6	18
81	Characterization of the mechanical properties of microgels acting as cellular microenvironments. <i>Soft Matter</i> , <b>2013</b> , 9, 2959	3.6	30
80	Structural transitions in nanoparticle assemblies governed by competing nanoscale forces. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10262-5	16.4	81
79	The motion of a microgel in an axisymmetric constriction with a tapered entrance. <i>Soft Matter</i> , <b>2013</b> , 9, 10391	3.6	16
78	Nanofibrillar thermoreversible micellar microgels. <i>Soft Matter</i> , <b>2013</b> , 9, 2380	3.6	18
77	Three-dimensional shape transformations of hydrogel sheets induced by small-scale modulation of internal stresses. <i>Nature Communications</i> , <b>2013</b> , 4, 1586	17.4	437
76	Multiple shape transformations of composite hydrogel sheets. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4834-9	16.4	262
75	Macroscale plasmonic substrates for highly sensitive surface-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6459-63	16.4	67
74	In situ plasmonic counter for polymerization of chains of gold nanorods in solution. <i>ACS Nano</i> , <b>2013</b> , 7, 5901-10	16.7	52
73	Colloidal analogs of molecular chain stoppers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 18775-9	11.5	53
72	Innenrücktitelbild: Macroscale Plasmonic Substrates for Highly Sensitive Surface-Enhanced Raman Scattering (Angew. Chem. 25/2013). <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6675-6675	3.6	0
71	Macroscale Plasmonic Substrates for Highly Sensitive Surface-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6587-6591	3.6	12



70	The role of substrate wettability in nanoparticle transfer from wrinkled elastomers: fundamentals and application toward hierarchical patterning. <i>Langmuir</i> , <b>2012</b> , 28, 16745-50	4	31
69	Towards tailored topography: facile preparation of surface-wrinkled gradient poly(dimethyl siloxane) with continuously changing wavelength. <i>RSC Advances</i> , <b>2012</b> , 2, 10185	3.7	28
68	Photochemical synthesis of polymeric fiber coatings and their embedding in matrix material: morphology and nanomechanical properties at the fiber-matrix interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 3484-92	9.5	30
67	Large-area organization of pNIPAM-coated nanostars as SERS platforms for polycyclic aromatic hydrocarbons sensing in gas phase. <i>Langmuir</i> , <b>2012</b> , 28, 9168-73	4	84
66	Controlling the degree of polymerization, bond lengths, and bond angles of plasmonic polymers. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18853-9	16.4	61
65	Kinetics of Multicomponent Polymerization Reaction Studied in a Microfluidic Format. <i>Macromolecules</i> , <b>2012</b> , 45, 4469-4475	5.5	14
64	Side-by-Side Assembly of Gold Nanorods Reduces Ensemble-Averaged SERS Intensity. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5538-5545	3.8	60
63	Microfluidic encapsulation of cells in polymer microgels. <i>Small</i> , <b>2012</b> , 8, 1633-42	11	195
62	High-throughput combinatorial cell co-culture using microfluidics. <i>Integrative Biology (United Kingdom)</i> , <b>2011</b> , 3, 653-62	3.7	162
61	Probing dynamic generation of hot-spots in self-assembled chains of gold nanorods by surface-enhanced Raman scattering. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7563-70	16.4	228
60	<b>2011</b> ,		41
59	Self-assembly of inorganic nanorods. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 656-71	58.5	219
58	Multifunctional Hybrid Polymer-Based Porous Materials. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1959-1969	19.6	22
57	High-throughput generation of hydrogel microbeads with varying elasticity for cell encapsulation. <i>Biomaterials</i> , <b>2011</b> , 32, 1477-83	15.6	162
56	Properties and emerging applications of self-assembled structures made from inorganic nanoparticles. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 15-25	28.7	1327
55	Microfluidic Synthesis of Polymer and Inorganic Particulate Materials. <i>Annual Review of Materials Research</i> , <b>2010</b> , 40, 415-443	12.8	180
54	Microgels with an Interpenetrating Network Structure as a Model System for Cell Studies. <i>Macromolecules</i> , <b>2010</b> , 43, 7277-7281	5.5	28
53	Rapid, cost-efficient fabrication of microfluidic reactors in thermoplastic polymers by combining photolithography and hot embossing. <i>Lab on A Chip</i> , <b>2010</b> , 10, 522-4	7.2	72

52	Step-growth polymerization of inorganic nanoparticles. <i>Science</i> , <b>2010</b> , 329, 197-200	33.3	422
51	A microfluidic route to small CO <sub>2</sub> microbubbles with narrow size distribution. <i>Soft Matter</i> , <b>2010</b> , 6, 630-634	3.6	35
50	A microfluidic approach to chemically driven assembly of colloidal particles at gas-liquid interfaces. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5300-4	16.4	77
49	Toward Controlling the Surface Morphology of Macroporous Copolymer Particles. <i>Macromolecules</i> , <b>2009</b> , 42, 1990-1994	5.5	30
48	Multiple modular microfluidic (M3) reactors for the synthesis of polymer particles. <i>Lab on A Chip</i> , <b>2009</b> , 9, 2715-21	7.2	111
47	Photothermally-triggered self-assembly of gold nanorods. <i>Chemical Communications</i> , <b>2009</b> , 2571-3	5.8	71
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